

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. PPD50047/US/D1	SERIAL NO. Not Assigned
	APPLICANT Ian Jepson et al.	
	FILING DATE	GROUP 1646 Not Assigned

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

Examiner Initial		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUB-CLASS	FILING DATE (If appropriate)
MDP	AA	5,424,333	06/13/95	Wing	514	615	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	Publication Date	COUNTRY OR PATENT OFFICE			Translation Yes	No
MDP	AB	0 615 976	09/21/94	EPO				
	AC	0 293 358	11/30/88	EPO				
	AD	0 218 571	04/15/87	EPO				
	AE	96/27673	09/12/96	WO				
	AF	93/23431	11/25/93	WO				
	AG	93/09237	05/13/93	WO				
	AH	93/03162	02/18/93	WO				
	AI	92/06201	04/16/92	WO				
	AJ	92/04449	03/19/92	WO				
	AK	92/00377	01/09/92	WO				
MDP	AL	91/13167	09/05/91	WO				
	AM	91/04323	04/04/91	WO				
	AN	90/14000	11/29/90	WO				
MDP	AO	90/08826	08/09/90	WO				

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MDP	AP	Allan, George F. et al., "Ligand-dependent conformational changes in the progesterone receptor are necessary for events that follow DNA binding, PROC. NATL. ACAD. SCI., USA, Biochemistry, Vol. 89, December 1992, pp. 11750-11754
	AQ	Allan, George F. et al., "Hormone and Antihormone Induce Distinct Conformational Changes Which Are Central to Steroid Receptor Activation", THE JOURNAL OF BIOLOGICAL CHEMISTRY, Vol. 267, No. 27, September 1992, pp. 19513-19520

EXAMINER MICHAEL PIAK	DATE CONSIDERED 9/26/05
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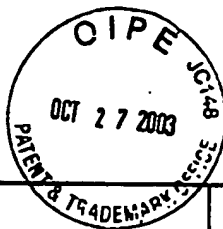
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MDP	AR	Ashburner, Michael, "Puffs, Genes, and Hormones Revisited", <b>CELL</b> , Vol. 61, April 6, 1990, pp. 1-3
↑	AS	Beato, Miguel, "Gene Regulation by Steroid Hormones", <b>CELL</b> , Vol. 56, February 10, 1989, pp. 335-344
	AT	Becker, Claudia <i>et al.</i> , "PCR cloning and expression analysis of cDNAs encoding cysteine proteinases from germinating seeds of <i>Vicia sativa</i> L.", <b>PLANT MOLECULAR BIOLOGY</b> , Vol. 26, 1994, pp. 1207-1212
	AU	Cammue, Bruno P.A. <i>et al.</i> , "Isolation and Characterization of a Novel Class of Plant Antimicrobial Peptides from <i>Mirabilis jalapa</i> L. Seeds", <b>THE JOURNAL OF BIOLOGICAL CHEMISTRY</b> , Vol. 267, No. 4, February 1992, pp. 2228-2233
	AV	Carlberg, Carsten <i>et al.</i> , "Two nuclear signalling pathways for vitamin D", <b>NATURE</b> , Vol. 361, February 18, 1993, pp. 657-660
	AW	Cho, Wen-Long <i>et al.</i> , "Mosquito Ecdysteroid Receptor: Analysis of the cDNA and Expression During Vitellogenesis", <b>INSECT BIOCHEM. MOLEC. BIOL.</b> , Vol. 25, No. 1, 1995, pp. 19-27
	AX	Christopherson, Karen S. <i>et al.</i> , "Ecdysteroid-dependent regulation of genes in mammalian cells by a <i>Drosophila</i> ecdysone receptor and chimeric transactivators", <b>PROC. NATL. ACAD. SCI., USA, Genetics</b> , Vol. 89, July 1992, pp. 6314-6318
	AY	Evans, Ronald M., "The Steroid and Thyroid Hormone Receptor Superfamily", <b>SCIENCE</b> , Vol. 240, May 13, 1988, pp. 889-895
	AZ	Goetting-Minesky, M.P. <i>et al.</i> , "Differential gene expression in an actinorhizal symbiosis: Evidence for a nodule-specific cysteine proteinase", <b>PROC. NATL. ACAD. SCI., USA, Plant Biology</b> , Vol. 91, October 1994, pp. 9891-9895
	BA	Green, Stephen <i>et al.</i> , "Nuclear receptors enhance our understanding of transcription regulation", <b>TIG</b> , Vol. 4, No. 11, November 1988, pp. 309-314
↓	BB	Heyman, Richard A. <i>et al.</i> , "9-Cis Retinoic Acid Is a High Affinity Ligand for the Retinoid X Receptor", <b>CELL</b> , Vol. 68, January 24, 1992, pp. 397-406
MDP	BC	Hirst, M.C. <i>et al.</i> , "Preparation of radiolabelled hybridization probes by STS labelling", <b>TRENDS IN GENETICS</b> , Vol. 8, No. 1, January 1992, pp. 6-7

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	BE	Imhof, Markus O. <i>et al.</i> , "Cloning of a <i>Chironomus tentans</i> Cdna Encoding a Protein (cEcRH) Homologous to the <i>Drosophila melanogaster</i> Ecdysteroid Receptor (dEcR)", <b>INSECT BIOCHEM. MOLEC. BIOL.</b> , Vol 23, No. 1, January 1993, pp. 115-124
	BF	Jiang, Binghua <i>et al.</i> , "Association of a 33-Kilodalton Cysteine Proteinase Found in Corn Callus with the Inhibition of Fall Armyworm Larval Growth", <b>PLANT PHYSIOL.</b> , Vol. 108, 1995, pp. 1631-1640
	BG	Jindra, Marek <i>et al.</i> , "Isolation and Developmental Expression of the Ecdysteroid-induced <i>GHR3</i> Gene of the Wax Moth <i>Galleria mellonella</i> ", <b>INSECT BIOCHEM. MOLEC. BIOL.</b> , Vol. 24, No. 8, 1994, pp. 763-773
	BH	Kliwer, Steven A. <i>et al.</i> , "Retinoid X receptor interacts with nuclear receptors in retinoic acid, thyroid hormone and vitamin D <sub>3</sub> signalling", <b>NATURE</b> , Vol. 355, January 30, 1992, pp. 446-449
	BI	Koelle, Michael R. <i>et al.</i> , "The <i>Drosophila EcR</i> Gene Encodes an Ecdysone Receptor, a New Member of the Steroid Receptor Superfamily", <b>CELL</b> , Vol. 67, October 4, 1991, pp. 59-77
	BJ	Kothapalli, Ravi <i>et al.</i> , "Cloning and Developmental Expression of the Ecdysone Receptor Gene From the Spruce Budworm, <i>Choristoneura fumiferana</i> ", <b>DEVELOPMENTAL GENETICS</b> , Vol. 17, 1995, pp. 319-330
	BK	Krust, Andrée <i>et al.</i> , "The chicken oestrogen receptor sequence: homology with <i>v-erbA</i> and the human oestrogen and glucocorticoid receptors", <b>THE EMBO JOURNAL</b> , Vol. 5, No. 5, 1986, pp. 891-897
	BL	Leid, Mark <i>et al.</i> , "Multiplicity generates diversity in the retinoic acid signally pathways", <b>TIBS</b> , Vol. 17, October 1992, pp. 427-433
	BM	Leid, Mark <i>et al.</i> , "Purification, Cloning, and RXR Identity of the HeLa Cell Factor with Which RAR or TR Heterodimerizes to Bind Target Sequences Efficiently", <b>CELL</b> , Vol. 68, January 24, 1992, pp. 377-395
MDP ↓	BN	Linthorst, Huub J. <i>et al.</i> , "Circadian expression and induction by wounding of tobacco genes for cysteine proteinase", <b>PLANT MOLECULAR BIOLOGY</b> , Vol. 21, 1993, pp. 685-694

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uap	BO	Mangelsdorf, David J. et al., "Characterization of three RXR genes that mediate the action of 9-cis retinoic acid", <b>GENES &amp; DEVELOPMENT</b> , Vol. 6, 1992, pp. 329-344
↑	BP	Oro, Anthony E. et al., "Relationship between the product of the <i>Drosophila ultraspiracle</i> locus and the vertebrate retinoid X receptor", <b>NATURE</b> , Vol. 347, September 20, 1990, pp. 298-301
	BQ	Riddihough et al., "An ecdysone response element in the <i>Drosophila</i> hsp27 promoter", <b>THE EMBO JOURNAL</b> , Vol. 6, No. 12, 1987, pp. 3729-3734
	BR	Schena, Mark et al., "A steroid-inducible gene expression system for plant cells", <b>PROC. NATL. ACAD. SCI., USA, Genetics</b> , Vol. 88, December 1991, pp. 10421-10425
	BS	Segraves, William A., "Something Old, Some Things New: The Steroid Receptor Superfamily in <i>Drosophila</i> ", <b>CELL</b> , Vol. 67, October 18, 1991, pp. 225-228
	BT	Segraves, William A. et al., "The <i>E75</i> ecdysone-inducible gene responsible for the 75B early puff in <i>Drosophila</i> encodes two new members of the steroid receptor superfamily", <b>GENES &amp; DEVELOPMENT</b> , Vol. 4, 1990, pp. 204-219
	BU	Smagghe, Guy et al., "Action of a Novel Nonsteroidal Ecdysteroid Mimic, Tebufenozide (RH-5992), on Insects of Different Orders", <b>PESTIC. SCI.</b> , Vol. 42, 1994, pp. 85-92
	BV	Smagghe, Guy et al., "Biological activity and receptor-binding of ecdysteroids and the ecdysteroid agonists RH-5849 and RH-5992 in imaginal wing discs of <i>Spodoptera exigua</i> (Lepidoptera:Noctuidae)", <b>EUR. J. ENTOMOL.</b> , Vol. 92, 1995, pp. 333-340
	BW	Smart, Catherine M. et al., "The timing of maize leaf senescence and characterization of senescence-related cDNAs", <b>PHYSIOLOGIA PLANTARUM</b> , Vol. 93, 1995, pp. 673-682
↓	BX	Stemmer, Willem P.C., "Rapid evolution of a protein <i>in vitro</i> by DNA shuffling", <b>NATURE</b> , Vol. 370, August 4, 1994, pp. 389-391
uap	BY	Terras, Franky R.G. et al., "A new family of basic cysteine-rich plant antifungal proteins from Brassicaceae species", <b>FEBS LETTERS</b> , Vol. 316, No. 3, pp. 233-240

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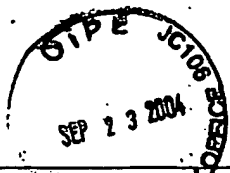
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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

MDP	BZ	Thummel, Carl S. <i>et al.</i> , "Spatial and Temporal Patterns of <i>E74</i> Transcription during <i>Drosophila</i> Development", <b>CELL</b> , Vol. 61, April 6, 1990, pp. 101-111
↑	CA	Vegeto, Elisabetta <i>et al.</i> , "The Mechanism of RU486 Antagonism Is Dependent on the Conformation of the Carboxy-Terminal Tail of the Human Progesterone Receptor", <b>CELL</b> , Vol. 69, May 15, 1992, pp. 703-713
	CB	Yao, Tso-Pang <i>et al.</i> , "Drosophila ultraspiracle Modulates Ecdysone Receptor Function via Heterodimer Formation", <b>CELL</b> , Vol. 71, October 2, 1992, pp. 63-72
	CC	Yao, Tso-Pang <i>et al.</i> , "Functional ecdysone receptor is the product of <i>EcR</i> and <i>Ultraspiracle</i> genes", <b>NATURE</b> , Vol. 366, December 2, 1993, pp. 476-479
	CD	Yu, Victor C. <i>et al.</i> , "RXR $\beta$ : A Coregulator That Enhances Binding of Retinoic Acid, Thyroid Hormone, and Vitamin D receptors to Their Cognate Response Elements", <b>CELL</b> , Vol. 67, December 20, 1991, pp. 1251-1266
	CE	Hogness, D.S., Talbot, W.S., Bender, M.T. and Koelle, M. [1992] X Ecdysone Workshop, Liverpool. Abstract).
↓	CF	Bowie <i>et al.</i> (1990) <b>Science</b> 247: 1307-1310.
MDP	CG	George <i>et al.</i> (1988) <b>Macromolecular Sequencing and Synthesis</b> (Ed. D.H. Schlesinger) Alan R. Liss Inc., New York, pp. 127-149.
	CH	
	CI	
	CJ	

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<b>FORM PTO-1019</b> U.S. Department of Commerce Patent and Trademark Office  List of Documents Cited by Applicant	Application No.:	10/606,060
	Filing Date:	June 25, 2003
	First Named Inventor:	Jepson
	Group:	<del>1645</del> 1646
	Examiner:	
Attorney Docket No.:		1392/4/3/2

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Examiner Initial	Cite No.	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where relevant passages or relevant figures appear
MDP	1.	5,424,333	6/1995	Wing	
↑	2.	5,514,578	5/1996	Hogness et al.	
↓	3.	6,610,828	8/2003	Jepson et al.	
MDP	4.	6,379,945	4/2002	Jepson et al.	

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MDP	5.	0 218 571	4/1987	EP		
↑	6.	0 293 358	11/1988	EP		
	7.	0 615 976	9/1994	EP		
	8.	90/08826	8/1990	PCT		
	9.	90/14000	11/1990	PCT		
	10.	91/04323	4/1991	PCT		
	11.	91/13167	9/1991	PCT		
	12.	92/003777	1/1992	PCT		
	13.	92/04449	3/1992	PCT		
↓	14.	92/06201	4/1992	PCT		
MDP	15.	93/03162	2/1993	PCT		

<b>FORM PTO-1449 U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>  <b>List of Documents Cited by Applicant</b>				Application No.:		10/606,060	
				Filing Date:		June 25, 2003	
				First Named Inventor:		Jepson	
				Group:		4645-1646	
				Examiner:			
				Attorney Docket No.:		1392/4/3/2	
MDP	16.	93/09237	5/1993	PCT			
↑	17.	93/23431	11/1993	PCT			
MDP	18.	96/27673	9/1996	PCT			
<b>OTHER DOCUMENTS</b>							
Examiner Initials	Cite No.	Include Author (in CAPITAL LETTERS), Title, Journal, Date, Pertinent Pages, Etc.					T
MDP	19.	Ayala et al. (1980) Modern Genetics, The Benjamin Cummings publishing company, Inc., p. 45					
↑	20.	Allan, George F. et al., Ligand-dependent conformational changes in the progesterone receptor are necessary for events that follow DNA binding, Proc. Natl. Acad. Sci., USA, Biochemistry, vol. 89, Dec. 1992, pp. 11750-11754.					
	21.	Allan, George F. et al., "Hormone and Antihormone Induce Distinct Conformational Changes Which Are Central to Steroid Receptor Activation", The Journal of Biological					
	22.	Chemistry, vol. 267, No. 27, Sep. 1992, pp. 19513-19520. Ashburner, Michael, "Puffs, Genes, and Hormones Revisited", Cell, vol. 61, Apr. 6, 1990, pp. 1-3.					
	23.	Beato, Miguel, "Gene Regulation by Steroid Hormones" Cell, vol. 56, Feb. 10, 1989, pp. 335-344.					
	24.	Becker, Claudia et al., "PCR cloning and expression analysis of cDNAs encoding cysteine proteinases from germinating seeds of <i>Vicia sativa</i> L.", Plant Molecular Biology, vol. 26, 1994, pp. 1207-1212.					
	25.	Cammue, Bruno PA. et al., "Isolation and Characterization of a Novel Class of Plant Antimicrobial Peptides from <i>Mirabilis jalapa</i> L. Seeds", The Journal of Biological Chemistry, vol. 267, No. 4, Feb. 1992, pp. 2228-2233.					
↓	26.	Carlberg, Carsten et al., "Two nuclear signalling pathways for vitamin D", Nature, vol. 361, Feb. 18, 1993, pp. 657-660.					
MDP	27.	Cho, Wen-Long et al., "Mosquito Ecdysteroid Receptor: Analysis of the cDNA and Expression During Vitellogenesis", Insect Biochem. Molec. Biol., vol. 25, No. 1, 1995, pp. 19-27.					

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MDP	28.	Christopherson, Karen S. et al., "Ecdysteroid-dependent regulation of genes in mammalian cells by a Drosophila ecdysone receptor and chimeric transactivators", Proc. Natl. Acad. Sci., USA, Genetics, vol. 89, Jul. 1992, pp. 6314-6318.	
↑	29.	Evans, Ronald M., "The Steroid and Thyroid hormone Receptor Superfamily", Science, vol. 240, May 13, 1988, pp. 889-895.	
	30.	Goetting-Minesky, M.P. et al., "Differential gene expression in an actinohizal symbiosis: Evidence for a nodule-specific cysteine proteinase", Proc. Natl. Acad. Sci., USA, Plant Biology, vol. 91, Oct. 1994, pp. 9891-9895.	
	31.	Green, Stephen et al., "Nuclear receptors enhance our understanding of transcription regulation", TIG, vol. 4, No. 11, Nov. 1988, pp. 309-314.	
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	34.	Hollenberg, Stanley M. et al., "Primary structure and expression of a functional human glucocorticoid receptor cDNA", Nature, vol. 318, No. 19, Dec. 16, 1985, pp. 635-641.	
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↓	37.	Jindra, Marek et al., "Isolation and Developmental Expression of the Ecdysteroid-induced GHR3 Gene of the Wax Moth <i>Galleria mellonella</i> ", Insect Biochem. Molec. Biol., vol. 24, No. 8, 1994, pp. 763-773.	
MDP	38.	Kliwer, Steven A. et al., "Retinoid X receptor interacts with nuclear receptors in retinoic acid, thyroid hormone and vitamin D <sub>3</sub> signalling", Nature, vol. 355, Jan. 30, 1992, pp. 446-449.	



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MDP	39.	Koelle, Michael R. et al., "The Drosophila EcR Gene Encodes an Ecdysone Receptor, a New Member of the Steroid Receptor Superfamily", Cell, vol. 67, Oct. 4, 1991, pp. 59-77.	
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	41.	Krust, André et al., "The chicken oestrogen receptor sequence: homology with v-erbA and the human oestrogen and glucocorticoid receptors", The EMBO Journal, vol. 5, No. 5, 1986, pp. 891-897.	
	42.	Leid, Mark et al., "Multiplicity generates diversity in the retinoic acid signaling pathways", TIBS, vol. 17, Oct. 1992, pp. 427-433.	
	43.	Leid, Mark et al., "Purification, Cloning, and RXR Identity of the HeLa Cell Factor with Which RAR or TR Heterodimerizes to Bind Target Sequences Efficiently", Cell, vol. 68, Jan. 24, 1992, pp. 377-395.	
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	47.	Riddihough et al., "An ecdysone response element in the <i>Drosophila</i> hsp27 promoter", The EMBO Journal, vol. 6, No. 12, 1987, pp. 3729-3734.	
↓	48.	Schena, Mark et al., "A steroid-inducible gene expression system for plant cells", Proc. Natl. Acad. Sci., USA, Genetics, vol. 88, Dec. 1991, pp. 10421-10425.	
MDP	49.	Segraves, William A., "Something Old, Some Things New: The Steroid Receptor Superfamily in <i>Drosophila</i> ", Cell, vol. 67, Oct. 18, 1991, pp. 225-228.	

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		Attorney Docket No.:	1392/4/3/2
MDP	50.	Segraves, William A. et al., "The E75 ecdysone-inducible gene responsible for the 75B early puff in <i>Drosophila</i> encodes two new members of the steroid receptor superfamily", <i>Genes &amp; Development</i> , vol. 4, 1990, pp. 204-219.	
↑	51.	Smagghe, Guy et al., "Action of a Novel Nonsteroidal Ecdysteroid Mimic, Tebufenozide (Ril-5992), on Insects of Different Orders", <i>Pestic. Sci.</i> , vol. 42, 1994, pp. 85-92.	
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	53.	Smart, Catherine M. et al., "The timing of maize leaf senescence and characterisation of senescence-related cDNAs", <i>Physiologia Plantarum</i> , vol. 93, 1995, pp. 673-682.	
	54.	Stemmer, Willem P.C., "Rapid evolution of a protein in vitro by DNA shuffling", <i>Nature</i> , vol. 370, Aug. 4, 1994, pp. 389-391.	
	55.	Terras, Franky R.G. et al., "A new family of basic cysteine-rich plant antifungal proteins from Brassicaceae species", <i>FEBS Letters</i> , vol. 316, No. 3, pp. 233-240.	
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		Filing Date:	June 25, 2003
		First Named Inventor:	Jepson
		Group:	<del>1645</del> 1646
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 EXAMINER MICHAEL PAUL DATE CONSIDERED 9/26/05

\*Examiner Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.